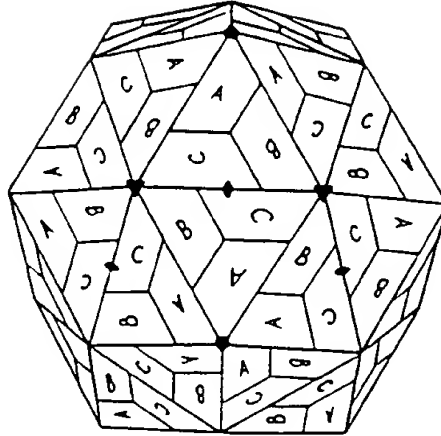


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T=3



PICORNAVIRUS

COMOVIRUS

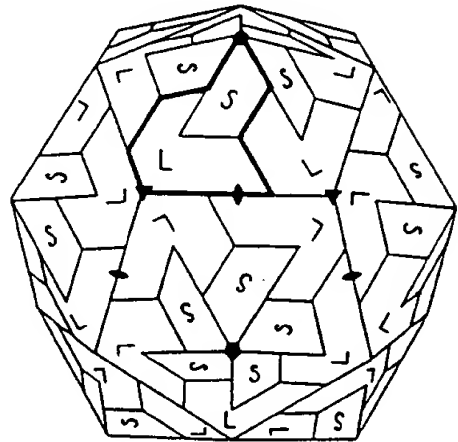
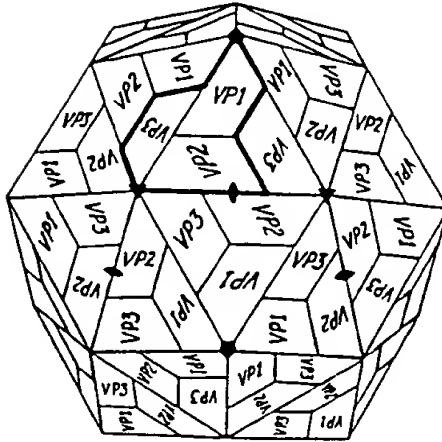


FIGURE 1

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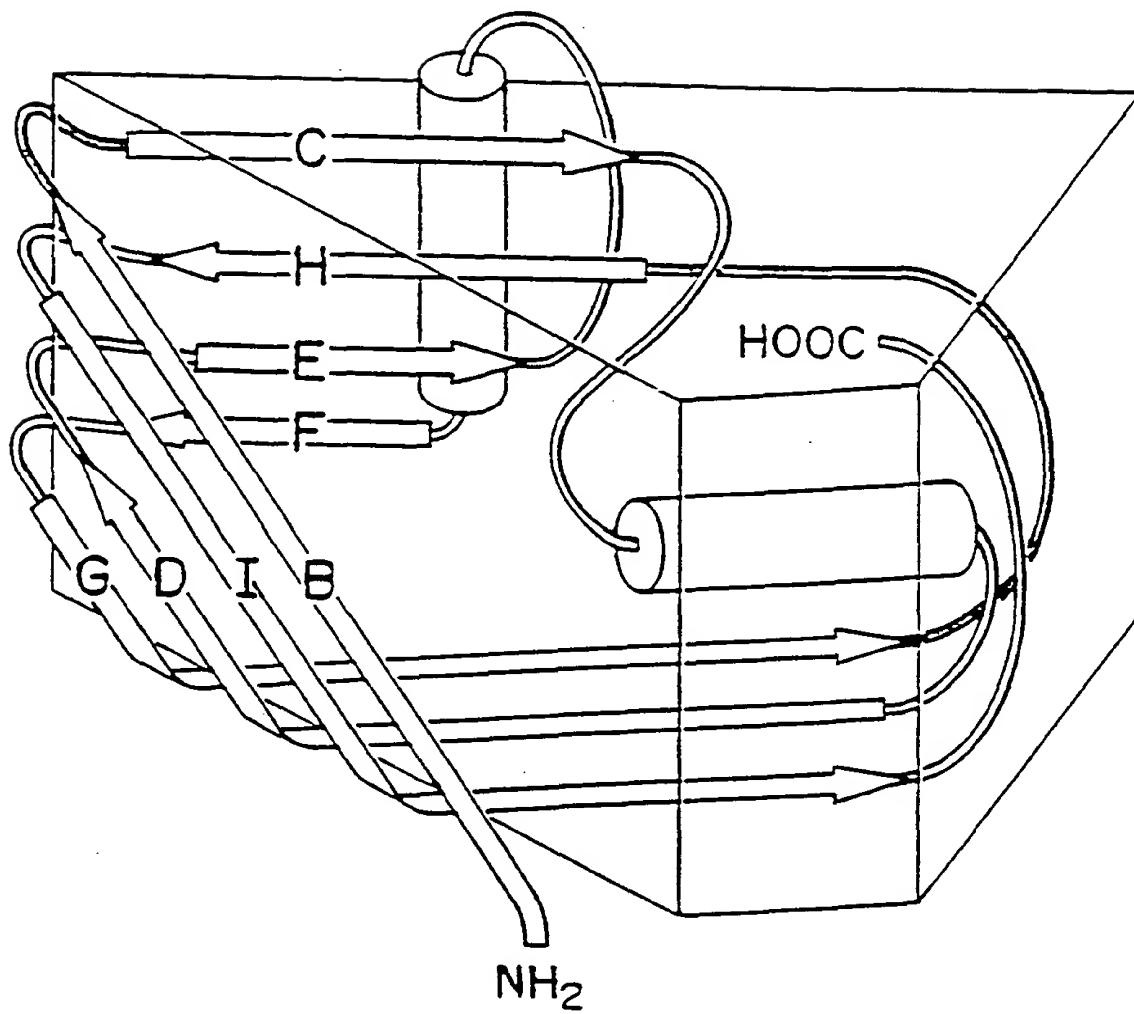


FIGURE 2

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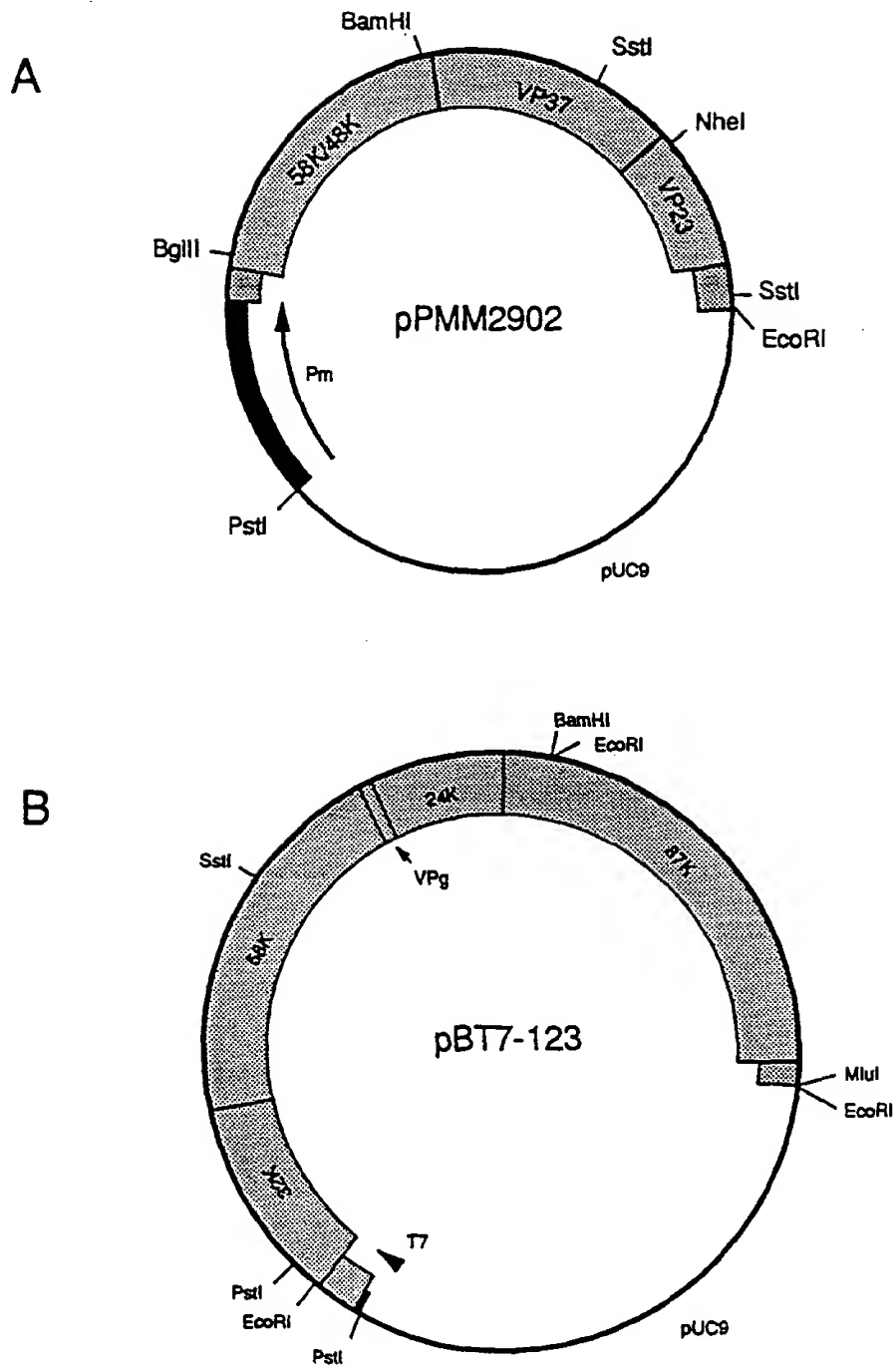


FIGURE 3

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1 5 10 15 20 25
G P V C A E A S D V Y S P C M I A S T P P A P F S
GGAOCTGTTTGTGCTGAAGCCTCAGATGTGTATAGCCATGTATGATAGCTAGCACTCCTCCTGCTOCATTTTCA
2670 2700 Nhe1 2730

<-----βC----->
30 35 40
D V T A V T F D L I N G K I T
GACGTTACAGCAGTAACTTTTGACTTAATCAACGGCAAATAACT
2760

FIGURE 4

(A)

(B)

FIGURE 5

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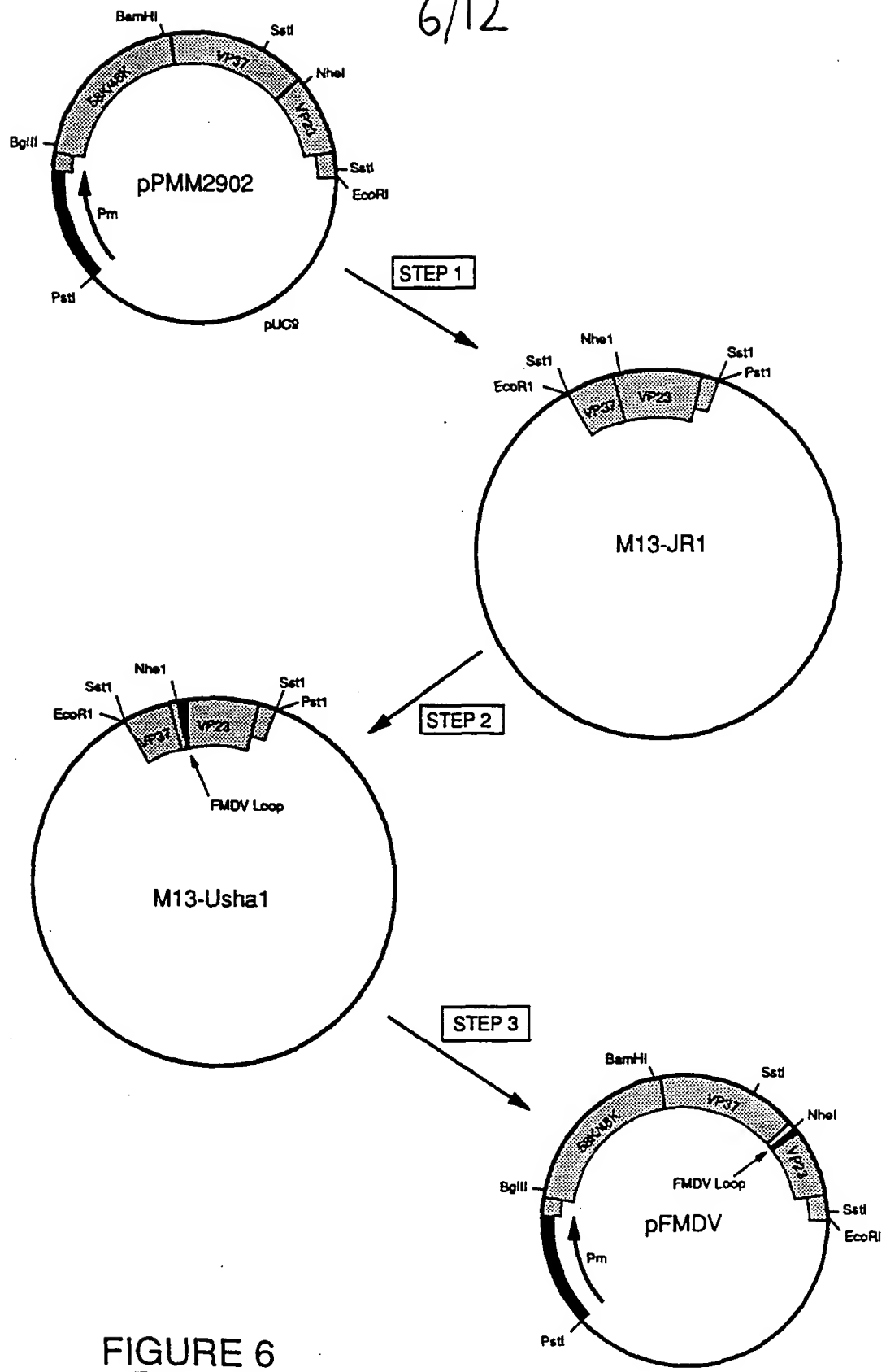


FIGURE 6

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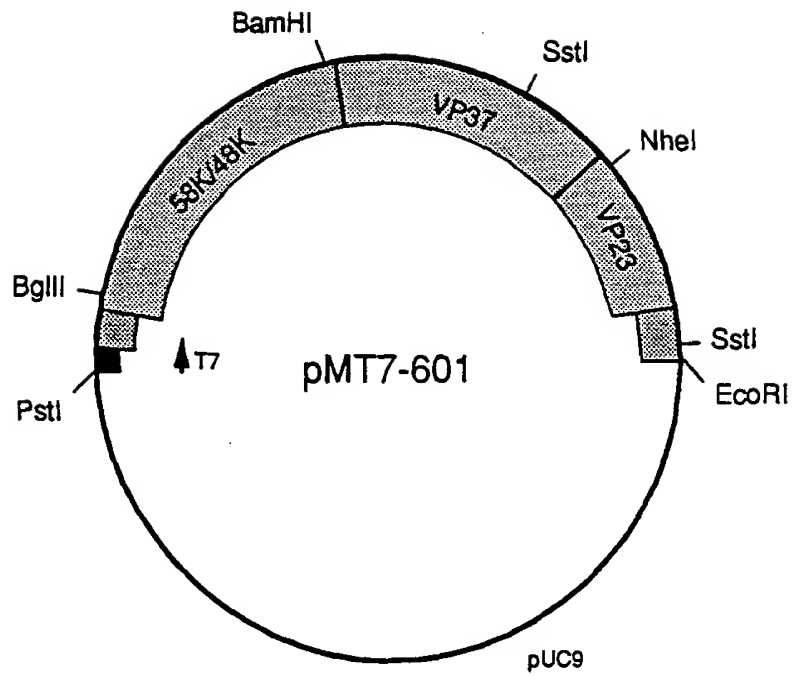


FIGURE 7

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| | | | | | | | | | |
|---|----|---|----|---|----|---|----|---|----|
| | 15 | | 20 | | 25 | | 30 | | 35 |
| P | C | M | I | A | S | T | P | A | P |
| F | S | D | V | T | A | V | T | F | D |
| L | I | | | | | | | | |

CCATGTAATGATAGCTAGCACTCTCTCTCTCTCATTTTCAGACGTTACAGCAGTAACCTTTTGACTTAATC

2700 Nhe1 2730 * 2760



Site-directed
Mutagenesis

| | | | | | | | | | |
|---|----|---|----|---|----|---|----|---|----|
| | 15 | | 20 | | 25 | | 30 | | 35 |
| P | C | M | I | A | S | T | P | A | P |
| F | S | D | V | T | A | V | T | F | D |
| L | I | | | | | | | | |

CCATGTAATGATAGCTAGCACTCTCTCTCTCTCATTTTCAGACGTTACAGCAGTAACCTTTTGACTTAATC

2700 Nhe1 2730 Aat11 2760

FIGURE 8

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(A)

S T D R P E G I E E E G G E R D R D R S D
 CTAGCACTGACCGCCCTGAGGGCATOGAGGAAGAGGGGGTGAGOGGATOGTGATOGTTGGAGGT
 GTGACTGGGGGACTCCCGTAGCTCTTCTCCCGCACTOGGCTAGCACTAGCAAGCC
PvuI

(B)

1 5 10 15 <-----
 G P V C A E A S D V Y S P C M I A S T D R P E G I E
 GGACCTGTTTGTGCTGAAGCCTCAGATGTGTATAGCCCATGTATGATAGCTAGCACTGACCGCCCTGAGGGCATOGAG
 2670 2700 NheI

-----> 30 35
 E E G G E R D R D R S D V T A V T F D L I
 GAAGAGGGCGGTGAGCGGATOGTGATOGTTGGACGTCACAGCAGTAACTTTTGACTTAATC
PvuI AatII 2760

FIGURE 9

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(A)

S T P A T G I D N H R E A K L D
CTAGCACTOCTGCTACTGGAATOGATAATCATAGAGAAGCTAAATTGGAOCT
GTGAGGAACGATGAOCTTAGCTATTAGTATCTCTTGGATTTAACC
Cla1

(B)

1 5 10 15 <-----
G P V C A E A S D V Y S P C M I A S T P A T G I D N
GGACCTGTTTGTGCTGAAGOCICAGATGTGTATAGOOATGTATGATAGCTAGCACTOCTGCTACTGGAATOGATAAT
2670 2700 Nhe1 Cla1
-----> 30 35
H R E A K L D V T A V T F D L I
CATAGAGAAGCTAAATTGGAOCTCACAGCAGTAACCTTTGACTTAATC
Aat11 2760

FIGURE 10

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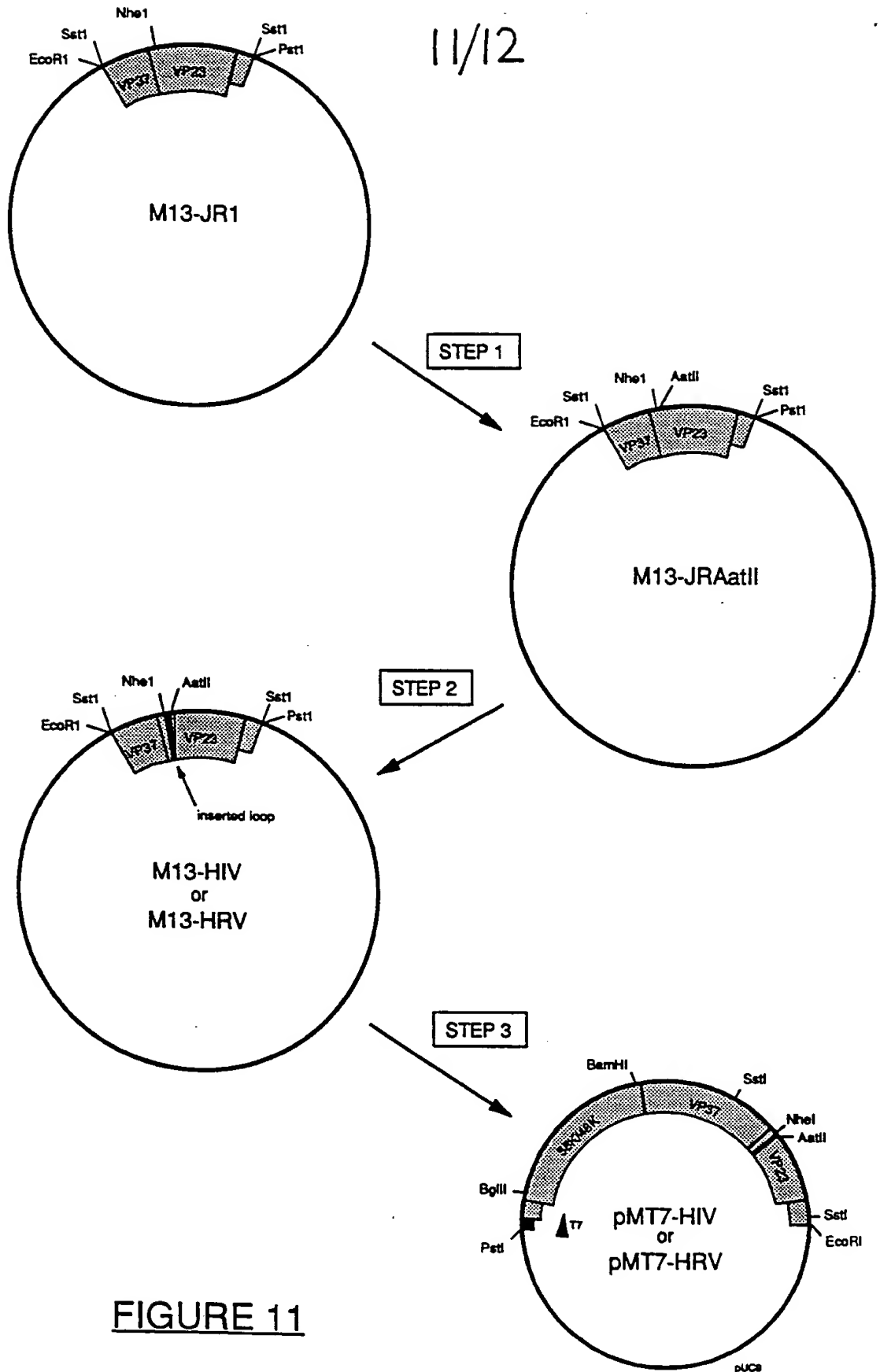


FIGURE 11

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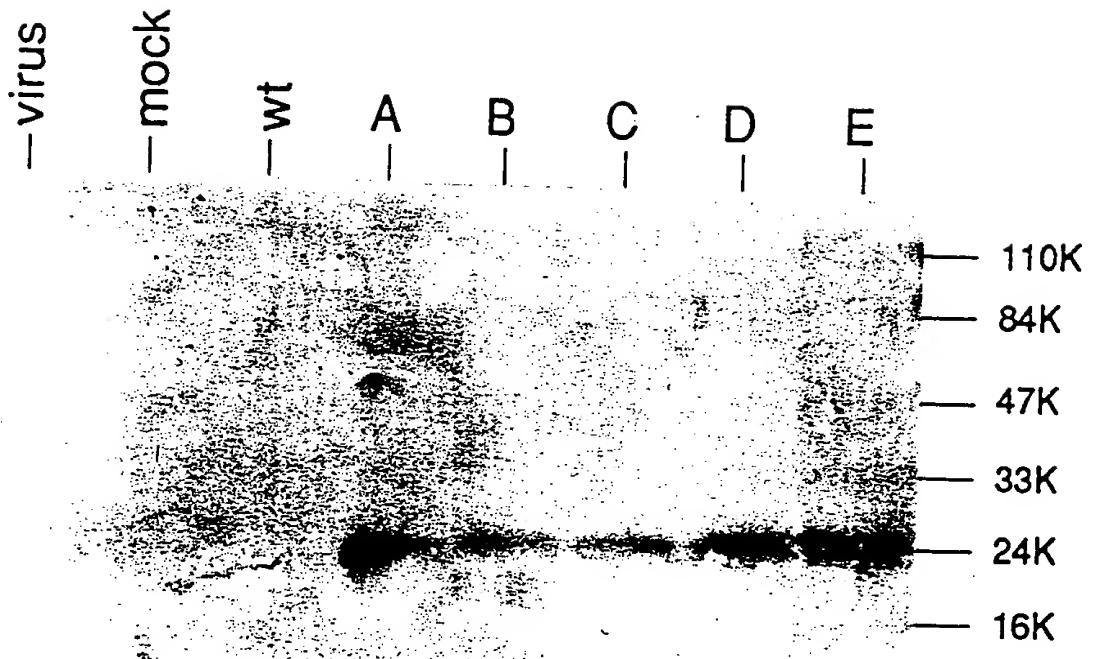


FIGURE 12